

Avid[®] Adrenaline[™] and Avid Mojo[™] Configuration Guidelines for the HP xw8000 Workstation

The following describes the configuration requirements for Avid Adrenaline and Avid Mojo on the HP xw8000 Workstation:

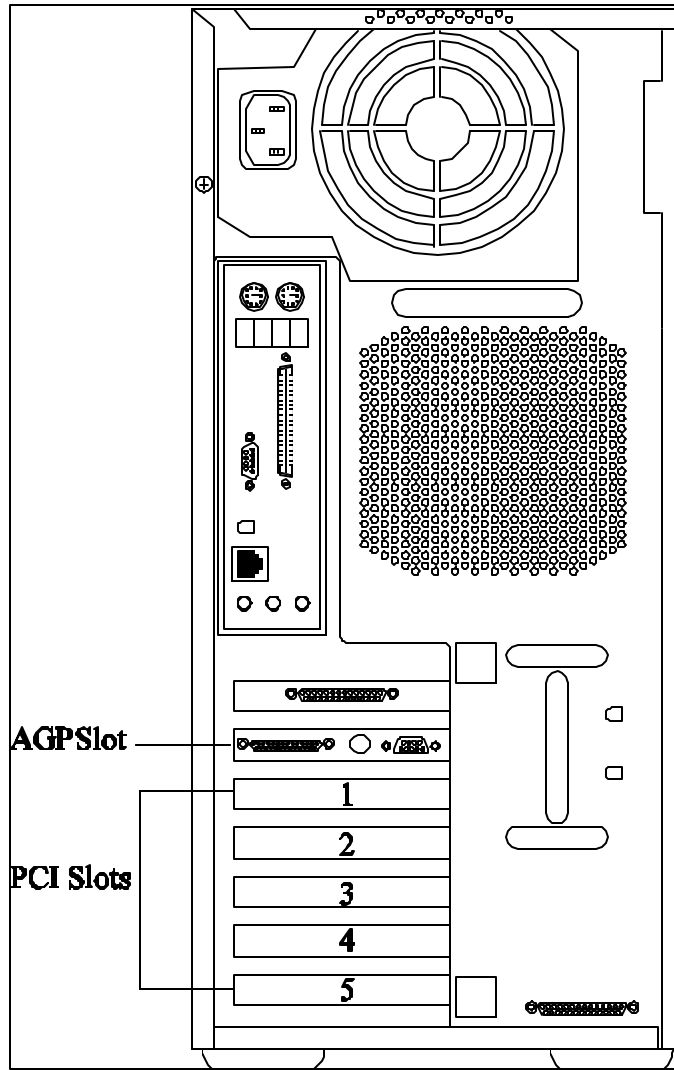
- HP[™] xw8000 Workstation, 2.8 GHz Intel[®] Xeon[™]. Dual processor required for Avid Adrenaline.
- NVIDIA[®] Quadro[®] 4 980 XGL graphics card
- 40GB or larger IDE Boot Drive
- 1GB memory minimum
- ATTO 3300 and 3305 Fibre Channel host adapters
- Alacritech[®] Gb Ethernet card if desired for LANshare EX
- SCSI – The two integrated SCSI channels on the HP xw8000 workstation are supported. They are from the Ultra 320 SCSI controller on the system board. The HP xw8000 external SCSI expansion kit (Avid P/N 0010-06332-01 or HP P/N AA857A) must be installed to obtain access to these two channels at the rear of the system.
- FireWire – either one of the two integrated FireWire connections on the HP xw8000 system or a FireWire PCI board can be used for connecting the Avid Adrenaline or Avid Mojo to the system. However, specific configuration rules must be followed.

Avid has qualified the integrated FireWire ports in the HP xw8000 for connection to Avid Adrenaline or Avid Mojo. However, if it is desired to use the integrated Gbit Ethernet for connection to Avid Unity[™] LANshare EX, then a 1394 add-in card must be installed into a PCI-X slot for connection to the Avid Adrenaline or Avid Mojo (see slot configurations for the HP xw8000 Workstation, below). To support this, Avid has qualified the ADS PYRO PCI 64 (PYRO part number API-311) and the SIIG 1394 3-Port PCI i/e, part #NN-440012 PCI FireWire cards for use with the HP xw8000 workstation. Only *universal* PCI cards (can use 3.3v) may be installed in PCI-X slots.

Slot Configurations for the HP xw8000 Workstation

The HP xw8000 workstation has three separate PCI bus segments. This allows for placement of PCI boards into specific PCI bus segments in the interest of optimizing bus utilization and performance. However, integrated devices such as the FireWire, Gb Ethernet, and SCSI controllers are also connected to particular PCI segments and can affect the bandwidth available to add-in cards in those segments.

The following illustration, table, and information following the table provides an explanation of what each PCI segment is, which PCI slots are contained in each PCI segment, and how the segments are affected by the other connections on the system.



HP xw8000 Slots

PCI Segments

The following PCI Segment table defines which PCI slots and system connections are assigned to each PCI bus segment. The segment numbers are arbitrarily assigned.

Slots	Segment	Segment Features	Other Shared Segment Connections
AGP	AGP	AGP 8X	None
Slot 1	Segment 1	32 bit, 33 MHz, 5v	Integrated Gb Ethernet and integrated FireWire ports are both on this segment ¹
Slot 2			
Slot 3	Segment 2	64 bit, 133 MHz, 3.3 v	No shared system connections
Slot 4	Segment 3	64 bit, 100 MHz, 3.3 v	Integrated Ultra 320 SCSI controller is on this segment
Slot 5			

¹ If the integrated Gb Ethernet port is used for connection to Avid Unity LANshare EX, then the integrated FireWire ports cannot be used for connection to Avid Adrenaline or Avid Mojo.

Avid recommends the following slot locations for specific PCI cards in the HP xw8000 workstation:

Slot 1 - This slot is not recommended for use as it is on the same segment as the integrated Gb Ethernet and integrated FireWire controllers.

Slot 2 - This slot is not recommended for use as it is on the same segment as the integrated Gb Ethernet and integrated FireWire controllers.

Slot 3 - If the integrated Gb Ethernet is used for connection to LANshare EX, a supported FireWire Universal PCI card must be installed in this slot for connection to Avid Adrenaline or Avid Mojo. Alternatively, and to reduce Ethernet CPU overhead, an Alacritech Gb Ethernet card may be installed in this slot for connection to LANshare EX and one of the integrated FireWire ports is used for connection to Avid Adrenaline or Avid Mojo. This slot may also be populated with a second 1394 interface for connection to FireWire drives.

Slot 4 - This slot is not utilized.

Slot 5 - This slot can contain an ATTO 3300 or 3305 Fibre Channel card. The ATTO Fibre Channel card can be used for local storage or for Avid Unity MediaNetwork.

SCSI Support

If you need SCSI support in the HP xw8000 system, you should use the two SCSI channels at the rear of the system. The channels connect to a dual U320 SCSI controller on the system board. An HP xw8000 expansion kit must be installed in order for these SCSI channels to be available externally. You can use both SCSI and Fibre attached external storage in the HP xw8000 system at the same time.

Fibre Channel Support

Avid provides support for local storage or Avid Unity MediaNetwork using the following Fibre Channel host adapters in the HP xw8000 system:

- ♦ ATTO 2-Gb optical Fibre Channel (Model 3300, single channel)
- ♦ ATTO 2-Gb copper Fibre Channel (Model 3305, single channel)

Ethernet Support

Connection to Avid Unity LANshare EX with the HP xw8000 is supported using the integrated Gb Ethernet controller provided that an add-in 1394 controller is installed for connection to the Avid Adrenaline or Avid Mojo.

Documentation for connecting storage devices ships with the devices if they are purchased from Avid. Striping information can be found on the Avid Knowledge Center.